

## **CLAIMS**

I claim:

1. An arrow extractor for gripping and removing an embedded arrow comprising:
  - a. a first lever arm having a first means for contacting the shaft of an arrow,
  - b. a second lever arm having a second means for contacting the shaft of an arrow in opposition to the first means,
  - c. a pivot for connecting said first and second lever arms such that the first and second means effect secure contact with the circumference of the arrow shaft at a point along the arrow shaft as the first and second lever arms rotate relatively toward each other about the pivot for connecting said first and second lever arms is closed.
2. An arrow extractor as set forth in Claim 1 wherein the first and second means for contacting the shaft of the arrow comprise clamp sections having matching surface recesses for substantially closely surrounding the shaft of a arrow.
3. An arrow extractor in accordance with Claim 2 wherein the surface recesses are provided with a resilient gripping material.
4. An arrow extractor in accordance with Claim 3 wherein the clamping sections are positioned along the lever arms between the pivot connecting the first and second lever arms and the opposite ends of the lever arms leaving sufficient room at the ends to manually grip the lever arms on each side of the clamp sections.
5. An arrow extractor in accordance with Claim 4 wherein the clamping sections are positioned on the lever arms between approximately one quarter and one third of the distance from the pivot point to the opposite end of the lever arms.
6. An arrow extractor for gripping and removing an embedded arrow comprising:

- a. a first lever arm having a first shaft gripper and further having a first elongated groove within the first shaft gripper,
- b. a second lever arm having a second shaft gripper and further having a second elongated groove within the second shaft gripper,
- c. a pivot for rotably connecting said first and second lever arms such that the first and second shaft grippers are opposed and tightly contact with the circumference of the arrow shaft within the first and second elongated grooves as the lever arms pivot toward each other.

7. An arrow extractor as set forth in Claim 6 wherein said first shaft gripper is laterally connected to the side of said first lever arm and said second shaft gripper is laterally connected to the side of said second lever arm.

8. An arrow extractor as set forth in Claim 7 wherein said first shaft and said second shaft grippers are not less than two inches each in length nor more than 5 inches each in length and the length of the second shaft gripper is substantially equal to the length of the first shaft gripper.

9. An arrow extractor as set forth in Claim 7 further having an arrow shaft gripper liner made of a resilient material disposed in the elongated grooves of the first and second arrow shaft grippers.

10. An arrow extractor as set forth in Claim 7 wherein said pivot comprises a hinge.

11. An arrow extractor as set forth in Claim 7 wherein said first lever arm contains a forked end and said second lever arm contains a protrusion and whereby said pivot for connecting the first lever arm to the second lever arm is a hinge pin retaining said protrusion within said forked end.

12. An arrow extractor as set forth in Claim 7 wherein the length of the first

lever arm is not less than 5 inches nor more than 8 inches and the length of the second lever arm is substantially equal to the length of the first lever arm.

**13.** An arrow extractor as set forth in Claim 3 wherein the first shaft gripper is attached to the first lever arm at no less than  $\frac{1}{4}$  the overall length of the first lever arm and at the end closest to the hinge pin and the second shaft gripper is attached to the second lever arm at the point corresponding to the attachment of the first shaft gripper on the first lever arm.

**14.** An arrow extractor for gripping and removing an embedded arrow comprising:

- a. a first lever arm having one forked end,
- b. a first shaft gripper perpendicularly attached to said first lever arm,
- c. a first elongated groove within the first shaft gripper,
- d. a second lever arm having a protrusion at one end,
- e. a second shaft gripper perpendicularly attached to said second lever arm,
- f. a second elongated groove within the second shaft gripper,
- g. a pivot for connecting the first and second lever arms such that the first and second shaft grippers tightly make intimate contact with the circumference of an arrow shaft within the first and second elongated grooves as the pivot connecting the first and second lever arms is closed and said pivot for connecting the first lever arm to the second lever arm is a hinge pin retaining said protrusion of the second lever arm within said forked end of the first lever arm.

**15.** An arrow extractor as set forth in Claim 14 wherein the length of the first lever arm is not less than 5 inches nor more than 8 inches and the length of the second lever arm is substantially equal to the length of the first lever arm.

**16.** An arrow extractor as set forth in Claim 14 wherein the first shaft gripper is

attached to the first lever arm at no less than  $\frac{1}{4}$  the overall length of the first lever arm and at the end closest to the hinge pin and the second shaft gripper is attached to the second lever arm at the point corresponding to the attachment of the first shaft gripper on the first lever arm.

**17.** An arrow extractor as set forth in Claim **14** wherein said first shaft and said second shaft grippers are not less than two inches each in length nor more than 5 inches each in length and the length of the second shaft gripper is equal to the length of the first shaft gripper.

**18.** An arrow extractor as set forth in Claim **14** further having an arrow shaft gripper liner made of a flexible rubbery material in the elongated grooves of the first and second arrow shaft grippers.